

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC SIGNAL AT THE INTERSECTION OF MD 197 (LAUREL-BOWIE ROAD) AND JERICHO PARK ROAD IN PRINCE GEORGE'S COUNTY, MARYLAND. MODIFICATIONS INCLUDE THE REPLACEMENT OF THE EXISTING VIDEO DETECTION CAMERA AND CABLE FOR SOUTHBOUND MD 197, THE REPLACEMENT OF THE EXISTING IN-PAVEMENT PRESENCE LOOP DETECTOR WITH VIDEO DETECTION FOR JERICHO PARK ROAD, AND THE REPLACEMENT OF EXISTING IN-PAVEMENT PASSAGE LOOP DETECTORS WITH NON-INVASIVE MICROLOOP PROBES FOR ALL APPROACHES. MD 197 IS ASSUMED TO RUN IN AN NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL CONTINUE TO OPERATE IN A NEMA SIX PHASE, FULL-TRAFFIC-ACTUATED MODE WITH THE MD 197 APPROACHES OPERATING CONCURRENTLY. EXCLUSIVE/PERMISSIVE LEFT-TURN PHASING IS PROVIDED FOR THE SOUTHBOUND MD 197 APPROACH.

CONTROLLER REQUIREMENTS

THE EXISTING NEMA SIZE '6' BASE MOUNTED CABINET AND EIGHT-PHASE CONTROLLER AND ALL ASSOCIATED EQUIPMENT WILL CONTINUE TO BE USED. EXISTING VIDEO DETECTION INTERFACE EQUIPMENT WILL BE REPLACED.

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

MS. FELECIA MURPHY
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ASSISTANT DISTRICT ENGINEER - MAINTENANCE
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SUPERVISOR - SIGNAL SHOP
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ASSISTANT DISTRICT ENGINEER - UTILITY
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MR. RICHARD L. DAFF
CHIEF, TRAFFIC OPERATIONS DIVISION
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EQUIPMENT LIST "A"

A. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY SHA:

ITEM NO.	QUANTITY	UNIT	DESCRIPTION
9086	1	EA	[UPDATED] VIDEO DETECTION INTERFACE EQUIPMENT: 1-4 CAMERAS
9570	30	SF	[UPDATED] SHEET ALUMINUM GROUND MOUNTED SIGN
			- 1 EA R2-1 (24"x36")
			- 2 EA R3-7(1)(L) (30"x30")
			- 2 EA R3-7(1)(R) (30"x30")

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR:

ITEM NO.	QUANTITY	UNIT	DESCRIPTION
1001	1	EA	MAINTENANCE OF TRAFFIC
5001	50	LF	F & I 24" WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
5002	100	LF	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS - ANY WIDTH
8006	1	EA	REMOVE & DISPOSE OF MATERIAL & EQUIPMENT PER ASSIGNMENT
8007	2	EA	VIDEO DETECTION CAMERA AND CABLE
8011	150	LF	SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCH - BORED
8018	5	EA	NONINVASIVE DETECTOR, 1000 FOOT LEAD IN CABLE
8019	6	EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
NEG	30	SF	INSTALL SHEET ALUMINUM SIGN
NEG	75	LF	F & I WOOD SIGN SUPPORTS UP TO 4" X 6"

EQUIPMENT LIST "C"

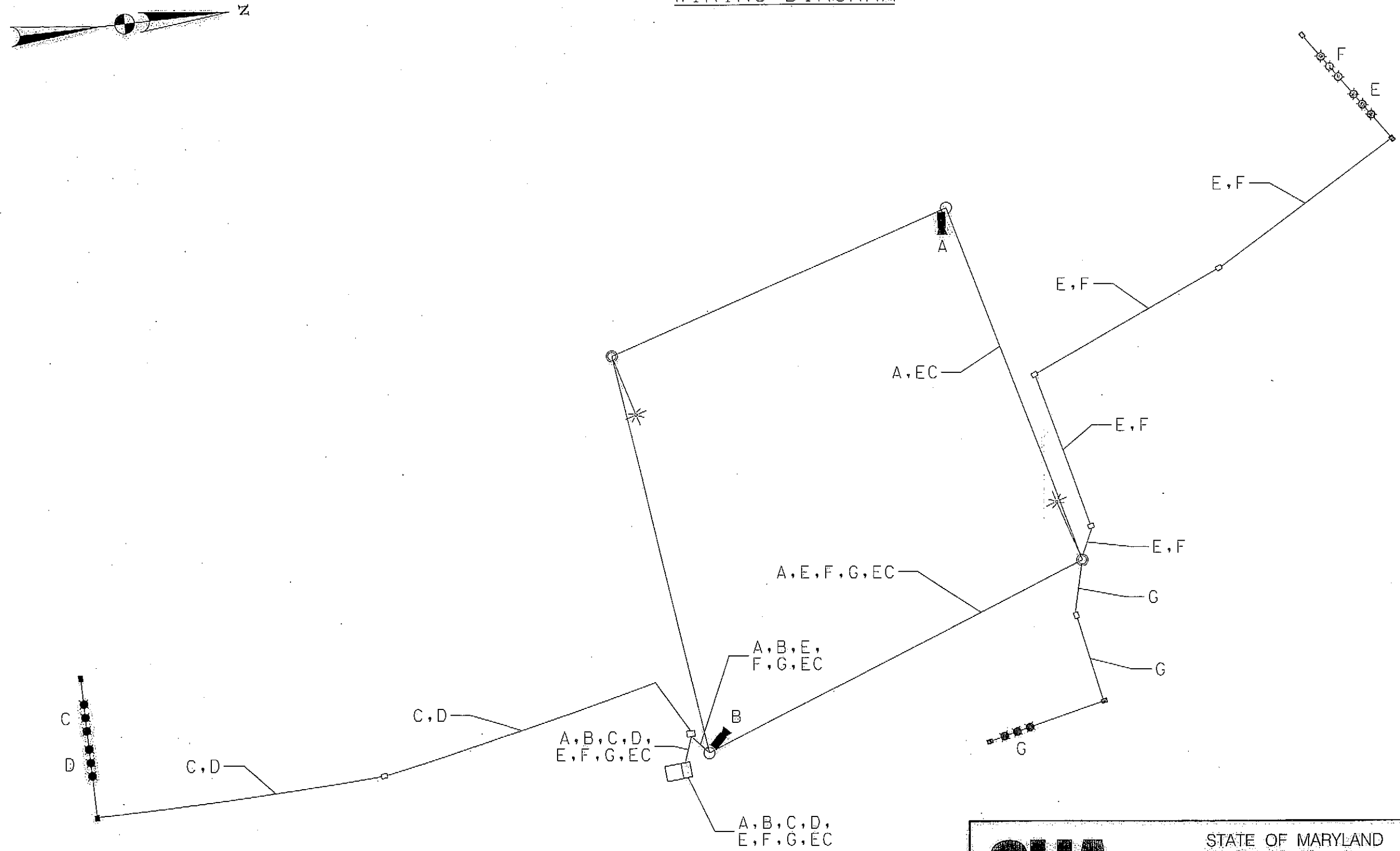
C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA:

NONE

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13
	R	R	R	R	R	R	R	R	R	R	R	R	R
	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	G	G	G	G	G	G	G	G	G	G	G	G	G
PHASE 2 + 5	R	R	R	←G	G	←G	G	G	G	G	R	R	R
2 + 5 CHANGE	R	R	R	←Y	Y	←Y	G	G	Y	Y	R	R	R
PHASE 2 + 6	G	G	G	←R	G	←R	G	G	G	G	R	R	R
2 + 6 CHANGE	Y	Y	Y	←R	Y	←R	Y	Y	Y	Y	R	R	R
PHASE 4	R	R	R	←R	R	←R	R	R	R	R	G	G	G
4 CHANGE	R	R	R	←R	R	←R	R	R	R	R	Y	Y	Y
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/←R	FL/Y	FL/←R	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R

WIRING DIAGRAM



WIRING KEY

- A.B } VIDEO DETECTION LEAD-IN CABLE
- C.D.E } NON-INVASIVE LOOP LEAD-IN CABLE
- EC } EXISTING CABLE

TOD NO: XX355-17
SHA NO: PG940K54
MD 197, Rustic Hill Road to Old Laurel
Bowie Road

SHA STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF TRAFFIC & SAFETY TRAFFIC ENGINEERING DESIGN DIVISION			
MD 197 (LAUREL-BOWIE ROAD) AT JERICHO PARK ROAD BOWIE, MARYLAND			
GENERAL INFORMATION SHEET			
SCALE	NONE	DATE	APRIL 6, 2011
		CONTRACT NO.	XX3555168
DESIGNED BY	BSH	COUNTY	PRINCE GEORGE'S
DRAWN BY	MER	LOGMILE	16019706.21
CHECKED BY	MAS	T.I.M.S. NO.	K473
F.A.P. NO.		T.O.D. NO.	
T.S. NO.	3311CGI	SG-02 OF SG-02	SHEET NO. 2 OF 2

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